
FOLIO

Computer Awareness Tour Initiated

In all probability the third best way of learning about something is to read about it. The second best way is to have a knowledgeable and enthusiastic individual tell you about it. The best way is to see it for yourself. Karen Walker and her associates in Computing Services' Information Section, Client Services, on behalf of the Study Group on Computer Literacy, adopted the "see it for yourself" approach to give people a measure of familiarity with some of the computer systems on campus.

The first campus computer awareness tour was held on 19 and 20 June and attracted 22 participants. The units represented were Fund Development; Community Relations; the Secretariat; the Alberta Research Council; the Departments of Soil Sciences, Elementary Education, and Computing Services; and St. Stephen's College. After visiting the sites of their choice, (the options included the Energy Management Division of Physical Plant, the University Hospitals, the Office of Administrative Systems, and Printing Services) they returned from whence they came with a good working knowledge of the computer scene.

"Computers have a surprisingly long history on campus," Terry Butler, Computing Services' Information Coordinator, told the group prior to the

start of the first day's walkabout. In 1957 President Johns struck a task force to assess computing requirements. A while later the University's first computer, a Royal McBee LGP-30, was purchased and installed in the Department of Physics. It was used mainly for administrative purposes. Today there are some 1,700 terminals (and counting) connected to MTS (Michigan Terminal System, implemented at the University in 1970) alone. Major computing units are housed in Computing Science, Computing Services, the Office of Administrative Systems (OAS) and the Division of Educational Research Services (DERS).

In Computing Services one learned of such services as text processing by means of high speed (one page per second) laser printers, data base management facilities, statistical applications, optical scoring for use in tests and questionnaires, and contract programming whereby a Computing Services programmer is hired to do the work for you.

Computing Services currently handles about 28,000 MTS accounts, more than half of which are student accounts. The latter are free of charge.

The Input/Output Room on the second floor of the General Services Building fairly sways to the rhythms

of three systems—MTS, PLATO and PARIS. Actually, the third system is the property of Alberta Culture and is operated by the University for a fee. The system keeps tabs on the various collections and acquisitions of the Tyrrell Museum of Palaeontology at Drumheller. The world-class facility will open in 1985. MTS and PLATO run around the clock; any slowdown can invariably be traced to the near simultaneous signing on of a large number of account holders.

The days of the Royal McBee are long gone. In the Input/Output Room you see tape drives; line printers; the Amdahl 580, a \$5.2 million linchpin; the Datapac that provides access to the Canadian Communications Network; and, egad, a plain, everyday plunger that has nothing to do with losing an election bet. The plunger is ideal for lifting tiles whenever cables have to be repaired or new cables installed.

PLATO (Program Logic for Automated Teaching Operations) made its debut at the University four years ago. In a lab in General Services, Bill Jensen, Senior Consultant, Instructional Systems Groups, said that lesson material now available totals 7,000 hours, and that about 50,000 hours can be obtained by accessing material from other universities. PLATO has virtually all manner of lessons, and, in sitting before a terminal and strolling through a few of the less advanced ones, you quickly realize that there is nothing to fear but fear itself.

Steve Sutphen of Computing Science explained that the system there is part of the ETHERNET network with the "Alberta" computer linking the University to the wider community. Image generation and analysis (in color) is coming into play more and more in the department, in part be-

McQuitty, Watts Appointed Associate Vice-Presidents

President Horowitz takes pleasure in announcing the appointments of J. Brian McQuitty and Peter A. Watts as Associate Vice-President (Facilities and Services) and Associate Vice-President (Finance and Administration), respectively. The appointments are for a limited term of 10 months, from 1 September 1984 to 30 June 1985. Both appointees will be reporting to L.C. Leitch, Vice-President (Finance and Administration).

Dr. McQuitty joined the University of Alberta as an Assistant Professor in the Department of Agricultural Engineering in 1966, and was promoted to Professor in 1974. He has held various administrative positions in his Faculty and department, including Associate Dean, Acting Dean and

Acting Chairman. Dr. McQuitty has served on numerous committees, including the Campus Development Committee and the Academic Development Committee. He was deeply involved in the planning and construction of the Agriculture-Forestry Centre, and has maintained an active interest in teaching and research.

Mr. Watts joined the University as Director of the Office of Administrative Systems in 1974, and has extensive experience in the systems area. Prior to his coming to Alberta, he spent some time in industry and then held increasingly responsible positions at Queen's University. Mr. Watts has served on a number of University committees, and is currently a member of Planning Group 1. □

This Week's Quote

"The shortest distance between any two points on campus has grass growing in between."

Source: Northern Illinois University's *Student Handbook 1984-85*. □

cause the time necessary to generate a picture has been reduced from four hours to about 20 minutes.

In Operations/Energy Management, Kevin Moodie, Superintendent of Plant Operations, pointed out with justifiable pride that the University, largely because of the Remote Control Monitoring System (RCMS), is saving about \$4 million a year under a program funded by Alberta Advanced Education. In 1982-83, he said, the utilities bill of \$10.1 million would have reached \$14.3 million without the energy savings program. The system is "a distributed, computer-based network of control and monitoring hardware and software." It consists of individual remote microprocessors which are linked to central host computers. The remote units perform all necessary control and monitoring functions required in each building on campus. The host computers provide the operator (the system is monitored around the clock) with information and allow changes to be implemented remotely.

There are now some 8,000 sensing points across campus; the ultimate figure could be as high as 14,000.

Looking beyond energy efficiency, the RCMS facility can look after the alarming of faculty research projects, security and program door opening functions, and the monitoring of fire alarm systems.

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The visit to the University Hospitals system was augmented by a view of the Mackenzie Health Sciences Centre from the top of the Campus Tower Building on 87 Avenue. Al Haskell, Director of Information Systems, said that the need to computerize came along in the mid-1960s. Don Fenna, Assistant Dean (Planning and Facilities) of Medicine, played a central role in designing the Medlab Cyber 120 System (Medlab, based in Salt Lake City, supplies software packages). In 1979 the Hospitals recorded a Canadian "first" by purchasing TANDEM, a system favored by the Toronto and New York Stock Exchanges and other major operations simply because it doesn't go down. There are a number of processors rather than one "slave" Central Processing Unit and if one conks out the others quickly take up the slack. If further expansion is in order, Information Systems can buy new components; there is no need to re-program.

Currently, there are 85 terminals in the various labs and critical centres, for example, the Burns Treatment Centre, and 20 heavy duty printers. The Hospitals process more than 150,000 requisition tests a month and there are about 400,000 patients on file.

Terry Butler's words about trying to imagine various tasks done with ease by computers suddenly reverting to old fashioned methods came to mind shudderingly as Mr. Haskell told of the copious referrals from major hospitals ("everyone is a specialist here, there are no GPs"), the production by the Parallel Analyzer of 7,000 test results per hour, the 20,000 items in the catalogue of goods and services, and the payroll with 5,000 names on it.

The tour served to shoot down such common misconceptions as "computers are mathematical" and "computers are the plaything of the sciences." Participants could certainly vouch for the validity of a statement by Computing Services' Director Dale Bent to the effect that, while it is true that computers may be used for mathematical matters, such as numerical computation, it is turning out that their logical and data manipulation properties are more important. As for the misconceptions that "computers are depersonalizing" and "computers are taking over," the tour group would echo Dr. Bent's comments that "prop-

erly viewed, computers should free people for the things that are uniquely human" and "it is not the computers but the people who know how to deploy computers that are likely to 'take over'."

The tour illustrated that there is more than one way to skin a cat. Karen Walker, for example, was heard to murmur, "I have only used MTS so I got used to thinking that everyone else does too."

While pleased with the tour in general, Walker and William Kurmey, Chairman of the Study Group on Computer Literacy, were disappointed

that no members of the target audience, the academic staff, signed up. The opportunity to do so is not lost, however. Computing Services plans to incorporate a computing sites tour into its non-credit course offerings. As such, it will carry a nominal fee (on the order of \$5 to \$15). The tour will likely be offered once per term with one site visit per week over an eight-week period. There will undoubtedly be more technology on view in the future because it has been estimated that at least two more decades of technological development at the rate of the past two decades will occur. □

ECAT Takes Shape

A council to foster the development and advancement of research-intensive and advanced technology enterprise in the Edmonton area has recently been established. ECAT, the Edmonton Council for Advanced Technology, is a non-profit society directed by a nine-member board representing the business and university communities engaged in various facets of advanced technology.

ECAT is intended to serve as a vehicle for the common interests of individuals and organizations engaged in advanced technology enterprise and the commercialization of research and technology, with a view to diversifying and strengthening Edmonton's economic base. The various goals of the Council include:

- the provision of a forum for the discussion of issues of importance to the advanced technology community and

the communication of those issues to government, other parties and the community at large;

- the development and support of initiatives intended to (a) increase and improve the business, scientific and technical services infrastructure required for the development of advanced technology enterprise; and (b) attract individuals and organizations involved in research and advanced technology; and
- the development and support of initiatives relating to the education and training of scientific and technical manpower required by advanced technology enterprise.

Early initiatives of ECAT have been to publicize its aims and objectives and to expand its membership. In addition, the development of several program events (SRTC tax seminars, U of A technology transfer presentation, various speakers) are also being initiated. According to ECAT President Gerry Tertzakian, President of Terochem Labs, the direction of future ECAT programs and services will be guided by the expressed needs of the membership.

University representatives on the ECAT Interim Executive are J. Gordin Kaplan, Vice-President (Research), and C.R. (Bob) James, Chairman of Electrical Engineering. "There is plainly a need for a forceful spokesman for the advanced technology community in northern Alberta," says Dr. Kaplan, ECAT Vice-President. "ECAT can be of tremendous benefit, and should help attract high tech industry to this area." □

Vacancy on GFC for Non-Academic Staff Member

Nominations are sought for one member of the non-academic staff to serve on General Faculties Council from September 1984 to 30 June 1987. Written nominations may be submitted to Ellen Solomon, Secretary to GFC, 2-1 University Hall. Deadline for receipt of nominations is 30 August 1984. □

Chair in Women's Studies Approved in Principle

At its meeting on 11 July, the Academic Development Committee approved in principle the establishment of a Chair in Women's Studies.

This may come as a surprise to most readers since there has not been a great deal of prior discussion about the proposal. However, no one, *Folio* has been assured, is trying to keep the idea under wraps; the alacrity was necessitated by a very short time-line from announcement of the competition for funding to the deadline for submission of proposals. In fact, the competition was originally announced

by the Department of the Secretary of State in March 1984 and the University was informed only on 27 June that the deadline for submission of proposals was 31 August 1984.

An *ad hoc* committee was established to prepare a letter of intent, which was submitted to meet the 15 June deadline. The letter outlined terms for a Chair in Women's Studies to be situated jointly at the University of Alberta and Athabasca University. Furthermore, the letter calls for the Chair to be established on a permanent basis, but for the individuals

holding the Chair to be appointed on a one- to five-year basis, so that several units may be involved over a period of time.

Many people on campus have already indicated an interest in working on the development of the proposal. The *ad hoc* committee is now faced with the difficulty of trying to mobilize these resources in a very short time and to contact any others on campus who may be interested and/or already working in the area, but who have not yet heard about these developments. In particular, the committee would like to have information about the activities already underway at this University which would help to establish that there is a core of interest here. The committee wishes to learn more about specific courses which have been taught or are planned for 1984-85 (it is not always easy to tell from Calendar descriptions which courses have relevance to Women's Studies, members say); any research grants which have been obtained by faculty in the area of women's studies; any publication or

other scholarly activities in the area of women's studies.

Members of the *ad hoc* committee are listed below, as are designated representatives from various academic units. Readers are asked to contact any of these individuals for further information and to forward any information which will be of help to the committee as soon as possible.

Ad Hoc Committee: Margaret Ann Armour, Chairman, WISEST; Gamila Morcos, Dean, Faculté Saint-Jean; Pat Prestwich, President, Academic Women's Association; Sandy Susut, Director, Women's Program, Faculty of Extension; Amy Zelmer, Associate Vice-President (Academic).

Designated Representatives: Pat Clements, Arts; Thomas Nelson, Gerontology; S. Abu-Laban, Sociology; Guy Swinnerton, Recreation and Leisure Studies; Nancy Hurlbut, Home Economics; Francis Harley, Pediatrics; Anne Fanning, Medicine; Norah Keating, Family Studies; Rosemary Liburd, Student Counselling; A.M. Decore, Education. □

Botanic Garden Scene of Annual Meeting of American Association of Botanical Gardens and Arboreta

The University of Alberta Devonian Botanic Garden hosted the 1984 annual meeting of the AABGA, 25 to 28 June. This was the third time in the Association's history that the annual meeting had been held at a Canadian botanic garden. Representatives from more than 100 different Gardens—from Kew and Wisley in England, to Sydney, Australia, and the Botanic Garden at Xalapa, Vera Cruz, Mexico—presented papers on a diverse variety of topics.

Entitled "Plants—the International Denominator," this year's meeting focussed primarily on the role of botanic gardens in applied research and plant conservation. The record-breaking number of papers were presented over seven sessions, and included topics such as Conservation of Endangered Chinese, Japanese and Korean Taxa; Conservation of Cycads; Conserving Indigenous Butterflies; and Use of Wildflowers in Land Reclamation and Wildlife Habitat Enhancement. Subject material brought representatives from the World Wildlife Fund and from the International Union for Conservation of Nature and Natural Resources.

Pre- and post-conference tours, accompanied by botanical staff from the Botanic Garden and the Provincial Museum, provided many of the de-

legates the opportunity to study and explore the flora of Alberta's alpine, montane, prairie and badland habitats.

In addition to the formal sessions, the meeting also provided propagators, curators, administrators and research personnel an informal opportunity to discuss and share their concerns and areas of interest. Each day of the conference was concluded on a lighter note by the provision of sumptuous banquets, a barbeque and entertainment by local ethnic groups. As well, members of the Botanic Garden Club treated the international visitors to a convivial afternoon tea in the Garden.

The Garden was greatly honored and pleased that Marion Shipley was recognized by the AABGA with the "Outstanding Host Committee Award" for her long and ardent support of the Garden's objectives and her contribution to many of the Garden's committees.

Hosting of the AABGA meeting was a significant milestone in the University of Alberta Devonian Botanic Garden's 25 years of development. With the conclusion of this meeting, referred to by many delegates as "one of the best AABGA meetings in the history of the Association," the Garden now looks forward to the developments of the next 25 years. □

U.N. Consultant Urges Mobilization of Public Opinion Against Nuclear Arms Race

On 4 June William Epstein, Special Consultant to the Secretary-General of the United Nations, Disarmament and Arms Control, was awarded an honorary Doctor of Laws degree. Dr. Epstein also delivered the following Convocation Address.

I am very happy to be honored by my university from which I received my first degree 51 years ago. I think I earned that degree, as, I feel sure, all of you have earned those you are receiving today. I am not so sure that I have earned the one conferred on me today. It is true that I have spent nearly 40 years working for peace and disarmament, always in an official capacity, which I think has been a great privilege. But sometimes some of my good friends do me the honor of pointing out that this means that I have spent nearly all of my adult life as a failure! Naturally, I don't think so,

and I am delighted that the University of Alberta seems to agree with me. So, first, I want to thank the University for the honor done me today and then to congratulate all of you on your graduation.

When Chancellor Savaryn invited me to accept the honorary degree, he was good enough to indicate that it was related to my field of work. I shall, therefore, share with you some of my thoughts on the threat of nuclear war and what can be done to avert it. Since that is a rather large and important subject, the Chancellor took the very wise precaution of informing me that it should not be more than 12 minutes long.

I cannot help but recall how the world has changed since I was a student. In those days the world had not learned the awful alphabet of A-or H-bombs, let alone of ICBMs, MIRVs

and ABMs; our vocabulary did not encompass "nuclear deterrence," first or second "strikes," anti-satellite weapons or particle beam and laser weapons for "star wars." In those days Germany and Japan were the enemies and the Soviet Union was our friend. In those days we were not worried that population or pollution posed a threat to society. In those days sex was dirty and air was clean. We believed that science and technology provided the instruments to save humanity from hunger, disease and poverty; today we fear that unless we learn to control and manage those instruments, they are also the means of our destruction. Today we know that if we do not eliminate the nuclear threat, all other problems will become irrelevant, for there may be no humans left in a radioactive nuclear winter.

There are some 50,000 nuclear weapons in the world today. Their total destructive power is equivalent to more than one million Hiroshima bombs; enough, if such a thing were possible, to destroy every city in the world more than three times.

Despite the obscenity of this high level of overkill, the arms race is proceeding at the fastest pace in all history. Global military spending now amounts to the astronomical sum of one trillion U.S. dollars a year. To put that figure into more comprehensible perspective, it amounts to about three times the total gross national product of Canada this year or about 140 million Canadian dollars every hour of every day. It is no wonder that both the rich and the poor countries are in economic straits, with the diversion of such enormous human and material resources from fruitful and productive economic and social purposes to wasteful and unproductive military purposes.

Each of the superpowers, who, between them, have more than 95 percent of these weapons, says that it is

trying to catch up to or keep up with the other. The truth of the matter is that there is rough parity between them. Each has some 20,000 nuclear weapons which it knows can never be used, and I cannot see that a few thousand more or less on either side would make any difference at all. I have never been able to understand what is meant by nuclear superiority when each side can utterly destroy the other, no matter which strikes first or with how much. In such circumstances, what does superiority really mean? How do you achieve it? What do you do with it if you think you have it?

Military strategists have put their faith in nuclear deterrence to prevent a nuclear war. This theory is based on the concept of mutual assured destruction, with the appropriate acronym of "MAD," which is a prescription for mutual suicide.

The doctrine of deterrence *has*, unquestionably, helped to restrain both superpowers. There has been no war involving both of them for 39 years. Frankly, I don't believe either side is so insane as to start a nuclear war by deliberate design or intention. What frightens me is the possibility of a nuclear war by accident, miscalculation, human or mechanical breakdown, inadequate systems or procedures for command, control, communication and intelligence, the escalation of a local war or the emergence of some madman as the leader of some nation. Hitler was not the only crazy to head a government. We can all think of several candidates today. Hence, it seems clear that deterrence will not last forever. Murphy's law has never been repealed!

What is worse, is that, as nuclear weapons have multiplied and become very accurate, counterforce concepts have been developed based on the theory that we can destroy not just the enemy's cities but his nuclear bases and the missiles in their silos. This had led to new strategic theories. Nuclear doctrine has gone from MAD to NUTS, from "mutual assured destruction" to "nuclear utilization target selection."

As a result of such misconceptions, some American leaders began to speak of fighting and winning a "limited" nuclear war or even a "protracted" nuclear war. Fortunately, wiser counsels seem to have prevailed, so that these leaders now acknowledge that there is no such American doc-

trine and the basis of their strategic planning that, if nuclear war should ever come, they must be able to "prevail," which is of course a euphemism for "win." Although official Soviet statements deny it, I would be very much surprised if some Soviet strategic planners did not harbor similar irrational thoughts.

Cease and Desist

The only way to make sure that there is no nuclear war and to ensure human survival is to halt and reverse the mad momentum of the nuclear arms race, which is a race that can end only in unimaginable disaster for all. The build-up of more sophisticated and larger numbers of weapons can and should be stopped. It does not add to but only subtracts from our security. It does not make us safer, only poorer. Whatever new weapons are developed by one side are inevitably developed by the other. The American lead in technology results in only short-term temporary advantage.

How then do we stop this mad race to oblivion? Having observed the negotiations for arms control and disarmament for more than a third of a century, I am beginning to think that none of the nuclear powers really wants to end the arms race. Each side keeps on proposing one-sided arms control measures that it knows the other side is bound to reject. During periods of relaxation of tension and detente, a number of arms control treaties and agreements have been achieved—actually, nine multilateral treaties and 13 bilateral American-Soviet agreements in the period from 1959 to 1979. All of them were welcome although they did not provide for the dismantling or destruction of a single nuclear weapon. But, during periods of cold war or of increasing tension between the superpowers, not a single agreement has been signed, and some that were signed, such as the SALT II treaty, have not been ratified.

The first task, therefore, is to get the two parties to start communicating with each other again and improving their relations. Not just one side, but both have broken off arms control negotiations or refused to resume them: the USSR, the INF and START talks, and the U.S., the talks to ban all nuclear testing and to avoid an arms race in outer space. Without

communication and negotiation there is no hope for progress. So it is necessary to get the two parties to start talking to each other and then to resume serious negotiations. Since they seem to be stuck, the task must be assumed by others. I am glad and proud that our Prime Minister launched the Canadian peace initiative last winter, which was followed last month by the heads of government of six non-aligned nations from all five continents—India, Tanzania, Sweden, Greece, Mexico and Argentina. They called for a freeze on the testing, production and deployment of nuclear weapons by all five nuclear powers to be followed by continuing reductions.

I am convinced that only the non-nuclear countries, the smaller powers and the peoples of the world really want to end the nuclear arms race. However, only if the people become deeply involved and succeed in mobilizing public opinion against the arms race is there any real hope. Only the people working in each country can overcome the undue power and influence of what President Eisenhower called the "military-industrial complex" and the "scientific-technological elite." Only the people can generate the necessary political will on the part of their governments.

It has happened before and it can happen again. It was the mothers of America who feared that radioactive fall-out would cause leukemia and cancer and who mobilized sufficient public pressure to compel the superpowers in 1963 to stop testing nuclear weapons in the atmosphere. It was the youngsters and the kids in college who raised enough hell to get the United States Government to stop the war in Viet Nam. Even in Canada, the outcry against testing cruise missiles in Alberta helped to influence Prime Minister Trudeau to undertake his peace initiative.

Hope Springs Eternal

So I believe there is hope that sanity will prevail. The public is really becoming aroused. There is a surging and insistent demand by people in all countries to stop the nuclear arms race and to reverse it. The churches, physicians and nurses, scientists, lawyers, university teachers and students,

Addendum

The last issue's listing of academic staff promotions effective 1 July 1984 should have included A. Shysh, who was promoted to the rank of Professor, Faculty of Pharmacy and Pharmaceutical Sciences. □

women's organizations and many other groups are becoming informed and active and are helping to inform and educate the public. In Canada alone in the last two years the number of so-called peace and anti-nuclear groups has doubled to some 500. More and more respected past and present political leaders are calling for no-first-use of nuclear weapons. The United Nations has launched the

World Disarmament Campaign in order to mobilize public opinion.

I hope that you future leaders will also become deeply involved in the efforts to avert a nuclear war. I am convinced that if all of us become more politically active we can ensure that our planet will not become radioactive. In those efforts, as well as in your careers and future lives, I wish you well. □



Tuesday, 17 July, saw the Austrian Ambassador to Canada, Her Excellency Dr. Hedwig Wolfram, and the Honorary Consul Hans Ockermueller visit the University to establish contacts with appropriate individuals and departments. After a morning tour of campus and a lunch hosted by the President, Dr. Wolfram and Mr. Ockermueller had conversations with Gerwin Marahrens and Manfred Prokop (Germanic Languages), Fred Engelmann (Political Science), and Franz Szabo (History). Also in attendance at lunch were the Chancellor, Peter Savaryn, and member of the Board of Governors, J.R. Kandler. Here, Dr. Wolfram exchanges views with Drs. Horowitz and Marahrens.

Summertime and the Viewin' is Easy

What do you do with 3,500 geraniums and 30,000 bedding plants? If you're Wayne McCutcheon, University Grounds Manager, you assemble five or six people, make the rounds of campus gardens and be creative. Ere too long, you can survey one of the most colorful, attractive summer campuses in the country.

Where do the scores of colorful annuals come from? In the past, grounds personnel have planted flowers which were obtained from commercial greenhouses. This year, however, we have grown our own. Realizing the cost involved in purchasing more than 30,000 bedding plants each year, and feeling frustration at the lack of availability of particular plants, Mr. McCutcheon had a greenhouse con-

structed at the University Farm. The greenhouse is operated by one person who is responsible for starting and potting the flowers; when planting season arrives in early June, several other people join in the mammoth task of filling the empty flower beds.

Mr. McCutcheon points that there are several advantages to the University having its own greenhouse to help beautify the campus. The obvious one is the dollar savings; just as important is the fact that staff can grow the kinds of plants they want, without restrictions of color, size and availability.

Summer truly is a colorful season and we can thank Mr. McCutcheon and his staff for brightening our campus. □

Foods and Nutrition Professor Receives Borden Research Award

Tapan K. Basu, Professor of Nutrition, was the recipient of the Borden Award in Nutrition at the recent Canadian Society for Nutritional Sciences Meeting held in Saskatoon. The annual award, sponsored by the Borden Co., honors a scientist 45 years of age or younger, for outstanding research in human nutrition. It consists of an engraved plaque and a \$1,000 honorarium.

A native of India, Dr. Basu obtained his BSc and BVSc from the University of Calcutta. After serving as a veterinary officer under the Government of West Bengal, India, for several years, he emigrated to the United Kingdom in 1963. He continued his studies, obtaining a post-graduate Diploma in Human Nutrition and an MSc in Biochemistry from the University of London in 1966 and 1968, respectively. He obtained his PhD Degree in Biochemistry from the University of Surrey in 1971. Upon graduation, Dr. Basu accepted a position as Head of the Metabolic Unit, Institute of Oncology, Oxted, Surrey. He became actively involved in research on the nutritional status of cancer patients and on metabolic aspects of cytotoxic drugs. From 1972 to 1975 he also held a concurrent position as an Associate Lecturer in Nutrition at the Department of Biochemistry, University of Surrey. In 1975 Dr. Basu joined the department as a full-time lecturer in nutrition.

He accepted a position as Associate Professor, Department of Foods and Nutrition, Faculty of Home Economics, University of Alberta, in 1981 and was promoted to Professor in 1983.

Dr. Basu's research has focussed on the metabolism of vitamins, particularly vitamin A, ascorbic acid and thiamin. He has studied the relationship of these vitamins with drug metabolism and malignant disease in both humans and animals. Highlights of his work have included: a) establishing a link between biochemical evidence of vitamin A deficiency and cancers of epithelial cell origin, such as bronchus, lung and endometrium in humans, and that the vitamin A deficiency is, in part, due to impairment in metabolic availability

of the vitamin; b) determining an association between breast cancer, especially with skeletal metastases and ascorbate deficiency; and the beneficial effects of ascorbate supplement to these patients has been demonstrated with biochemical rationale; and c) investigating the thiamin antagonistic effect of 5-fluorouracil, a widely used cytotoxic agent, on malignant disease.

Dr. Basu has published more than 65 papers, and has authored and/or edited four books. In addition, he has participated in numerous invited symposia and seminars in South America, England, and North America. □

Sports Camps All the Rage

If some areas on campus "wind down" a tad during the summer months, "gear up" is the buzzword at the Physical Education complex. This year's Summer Sports Camps have attracted a record 2,000 "campers" with quotas in some of the offerings being filled well in advance.

Basketball appears to be the most popular of the programs with more than 350 "hoopsters" participating. Football and hockey follow closely.

According to Dan Syrotuik, Camps Coordinator, "there is no rhyme or reason why some sports are more popular than others. The children's programs were well received but several which were aimed at adults attracted only one registrant."

Most of the programs run for five days; those that extend to seven allow out-of-town participants to register in residence on a Sunday and begin their programs the following day. Mr. Syrotuik emphasized that the camps are becoming increasingly popular with out-of-town students and estimates that about one-third of the camp's registrants live outside Edmonton. For instance, in the swimming program 50 percent of those enrolled are out-of-towners.

Continued on page eight

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July							September							October						
1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	1	2	3	4	5	6
8	9	10	11	12	13	14	8	9	10	11	12	13	14	15	7	8	9	10	11	12
15	16	17	18	19	20	21	15	16	17	18	19	20	21	22	14	15	16	17	18	19
22	23	24	25	26	27	28	22	23	24	25	26	27	28	29	21	22	23	24	25	26
29	30	31					29	30	31						28	29	30	31		
							30													



sunday	monday	tuesday	wednesday	thursday	friday	saturday
			1	2	3	4
5	6 ■ Heritage Day; University buildings closed	7 ■ Until 11 August, Regular supplemental examinations, except for students in the LLB program	8	9 ■ Folio published	10 ■ Board of Governors ■ Last day for advance registration in on-campus, late afternoon and evening credit	11
12	13	14	15	16	17	18
19	20	21	22 ■ Until 26 August, Meetings of International Organizations of Paleobotany	23 ■ Folio published	24	25 ■ Mature student Orientation begins
26	27 ■ Until 28 August, Orientation and registration for students in Dentistry ■ Until 31 August, Orientation exercises and classes begin for students in first year of LLB program	28	29 ■ Orientation for first- and second-year students in Medicine ■ Classes begin for students in Dentistry ■ Until 31 August, Orientation Week for international students	30 ■ Classes begin for first- and second-year students in medicine.	31	

While the majority of the camps are designed for girls and boys from ages 8 to 18, some adult programs are offered. Those from out of town have the option of staying in Lister Hall.

Mr. Syrotuik points out that although the camps are fun, there is a lot of work involved on the participants' part as some camps "run day and night." "Campers" are taught the fundamentals of their particular

sport by Panda and Golden Bear coaches and team members, Physical Education staff and national team coaches.

The camps began 1 June and run until 31 August to dovetail with the elementary and high school calendars. All programs are conducted on campus with the exception of tennis, which is taught at the University Tennis Centre. □

CSSE Awards Medal to David Friesen

At the annual general meeting of the Canadian Society for the Study of Education (3 June at the University of Guelph), the Distinguished Service Medal was awarded to David Friesen, Educational Administration. The following are comments made by Naomi Hersom, Dean, College of Education, University of Saskatchewan, prior to the presentation of the award.

It is most appropriate that the first award of the Distinguished Service Medal should be made to Professor David Friesen because he has been associated with so many "firsts" in the history of the Society. David Friesen participated during the earliest discussions when CSSE existed only as a vision of what might be. He was part of the debate, the negotiations, and the struggles that eventually brought about the birth of the Society, an event later described as being "...born of multiple parents in a confused atmosphere of hope and concern."

Like any good parent, Professor Friesen did not abandon the child after its birth at McGill University in 1972. He worked very hard to ensure that the Society would have a sound structure, that it would maintain its strong vision, that it would be a voice to be heard in Canada...a living presence. He accepted responsibility as secretary-treasurer during the earliest days of formation, laying the groundwork for internal policies and practices that have served the Society well throughout its development. He represented the Society externally at the national level, making sure that federal funding policies would benefit researchers in education. He brought the CSSE into full recognition as a member of the Social Science Federation of Canada.

During those busy years he also became President of the Canadian Educational Research Association, continued to be an active researcher and writer, carried a heavy assignment of teaching and graduate supervision in the Department of Educational Administration, and was much involved with the formation of the Canadian Association for the Study of Educational Administration...a most energetic record, indeed. He was elected President of the Canadian Society for the Study of Education, serving in that office from 1976 to 1978. By the time he had fulfilled his term as past president in 1980, he had given over a decade of service to the Society.

I am fortunate to have been one of those whose lives have been touched by David Friesen. As a former graduate student, and later as a colleague at the University of Alberta and in the work of the Society, I have found him to be a gifted teacher, an esteemed advisor, a valued friend. He is a person who models prudence, integrity, and the highest ideals of scholarship.

David Friesen's contributions to the CSSE have been extraordinary. As an active participant in the development of the Society from its inception, he committed himself to its purposes. As a superb manager of the Society's conferences, publications, membership, and finances, he built a strong organization. As a quietly persistent conscience of the Society, he stimulated remarkable growth internally and externally.

We in the Canadian Society for the Study of Education honor David Friesen for his significant service to researchers and scholars in education in Canada by presenting him with this, the first Special Medal for Distinguished Service. □

Minnesota Honors Shirley Stinson

Shirley Stinson, Associate Dean (Graduate Education and Research Development) in the Faculty of Nursing, has been awarded an Outstanding Achievement Award by her alma mater, the University of Minnesota. In presenting the award, the Board of Regents described Dr. Stinson as a "visionary leader in developing graduate nursing education and nursing research programs in Canada." The first woman to receive the senior national scientist award, Dr. Stinson was cited as an "internationally respected researcher and educator who has provided a stimulating learning environment for hundreds of students."

Dr. Stinson is a graduate of this University (BScN 1953), the University of Minnesota (MNA 1958), and Columbia University (EdD 1969). She joined the University staff in 1969 and, in addition to her duties as Associate Dean of Nursing, currently holds

a joint appointment as Professor in the Faculty of Nursing and the Department of Health Services Administration and Community Medicine.

Responsible for the development of a Master's in Nursing program at this University (1975), Dr. Stinson is internationally recognized for her influence on nursing research and education. According to Jannetta MacPhail, Dean of Nursing, her "capacity to visualize the possibilities for nursing and the health care system is matched by her ability to develop strategies and take action to make what is possible a reality." Dr. Stinson describes herself as a generalist. She has published more than 70 articles and reports on a wide range of topics, and has been honored by many provincial and national bodies. She is currently Chair of the Alberta Foundation for Nursing Research. □

W.E. Smith, 1919 - 1984

W.E. ("Ted") Smith, a member of our University's academic staff from 1947 to 1980, died on 26 June, in Edmonton.

Dr. Smith was born in Cardston, Alberta, where he attended public and high school. He later studied at the Olds School of Agriculture (1937-38) and the University of Alberta, where he received his BSc in Agriculture in 1941 and his MSc in Genetics and Plant Breeding in 1947. He obtained his PhD in Genetics and Plant Pathology from the University of Nebraska in 1959. Dr. Smith also served, from 1943 to 1945, as a Training Officer in the Royal Canadian Navy with the rank of Lieutenant.

Appointed as Field Superintendent and Lecturer in Field Crops on 1 May 1947, Dr. Smith rose through the ranks to Professor in 1968. In 1962 he accepted an 18 months' assignment to Damascus, Syria, as Regional Agronomist for the Food and Agricultural Organization of the United Nations with advisory responsibilities to improve wheat and barley production for 13 Near East countries.

Dr. Smith was an expert in applied plant genetics. He was responsible for

development of Kenhi wheat (in cooperation with the late John Unrau), Gateway and Centennial barley (in cooperation with the late L.P. Johnson), Aurora clover (in cooperation with C.R. Elliott of Beaverlodge) and Grizzly oats. In addition, he developed promising flax and soft white spring wheat varieties and tested them for disease resistance. As a consultant, he is credited with the introduction of rapeseed (Canola) as a crop in Alberta and assisted in obtaining the necessary federal legislation which allowed Canola to be handled at the preferential rates provided in the Crow's Nest Pass Agreement.

Dr. Smith was very active in agriculture in this province and beyond; as Chairman of the Alberta Forage Crops Advisory Council; President of the Edmonton local of the Agricultural Institute of Canada; Director of the Alberta Institute of Agrology; Secretary of the Alberta Seed Growers Association, and member of the NRC Association Committee on Plant Breeding, the National Plant Breeding Committee, the Alberta Varietal Zonation Committee, the Alberta Crop Production Board, the Scientific Com-

mittee of the U.S. Flax Institute and the International Crop Improvement Association.

He taught courses in Field Crops, Plant Science, Biometrics and Genetics and served on the Executive Committee of the Faculties of Science and Agriculture, the 50th Anniversary Committee of the Faculty of Agriculture and the University Committee on Junior Colleges. Dr. Smith was elected to a three-year term on the AAS:UA Salary Committee and served two years as President of the AAS:UA. He assisted in the administration of the Department of Genetics as Executive Assistant under C. Persson and acted as Co-Chairman of the Department with J. Kuspira.

Dr. Smith has been described as the quintessential "committee man," always alert and poised for debate, as honest as they come, and fearless in his advocacy of straight dealings.

In addition to some 40 scientific papers, reports and briefs, Dr. Smith presented many educational seminars and assisted in the preparation of several provincial government publications.

Dr. Smith was extremely active in community affairs as Vice-President of the Alberta School Trustees Association, Chairman of the Edmonton Public School Board, Regional Representative of the Alberta Federation of Home and School Association, and as a member of the Alberta Advisory Committee on Educational Research, the Board of Teacher Education and Certification for Alberta and the Alberta Board of Post-Secondary Education. He was also a scoutmaster for 10 years.

Dr. Smith retired in 1980, having been unwell for a year or so. He and his wife, Cathie, took a long and, by their own account, wonderful trip to Australia shortly thereafter, but neither was blessed with superb health in recent years. He managed to remain his usual jovial, optimistic and encouraging self. His large circle of friends here will miss him deeply.

He is survived by his wife, Cathie, who remains in Edmonton; by their six children: Ted (Calgary), Andy (Peace River), Georgina (Montreal), Corinne (Dawson Creek), Cathie (Comox) and Lorna (Edmonton); by 14 grandchildren; and by a brother (Thurston) and two sisters (Arlene Scott and Georgia Majeske).

Donations can be sent to the Alberta Heart Foundation. □

University Reaps Nursing Research Rewards

The Alberta Foundation for Nursing Research is nearly two years old. Yet, far from the terrible twos that often accompany that significant birthday, the Foundation appears intent on trying to please. At a recent press conference Foundation Chairman Shirley Stinson announced that the provincially-funded agency has awarded 15 research grants to Alberta nurse researchers. The majority of the grants have been awarded to faculty and students in nursing at this University.

A major research project, four facilitation grants, a conference, and nine student research bursaries will share research funds totalling \$65,000, said Dr. Stinson, Associate Dean of Nursing at our University. The grants awarded are the second since the Foundation was established in late 1982.

Two University of Alberta nurse researchers have been allocated the major portion of the research funds. Janet Kerr, Associate Dean and Professor of Nursing, and Phyllis Giovannetti, Associate Professor of Nursing, will use a \$25,000 project grant to analyse the reliability and validity of three commonly-used approaches to measuring the nursing care needs of patients. Dr. Kerr has also received the first Foundation conference grant (also \$25,000) which will go toward the support of an international conference on nursing research to be held on campus in May 1986. More than 40 countries will be represented at the major scientific symposium.

The facilitation grants, ranging from \$1,800 to \$2,500, will pave the way for four research proposals. Edmonton public health nurses Karen Mills and Mary Masson hope to investigate the effectiveness of new screening methods for detecting vision problems in school children. The remaining three facilitation grants have all been awarded to University of Alberta nurses. The team of Peggy-Anne Field, Jane Ligowski and Christine Kyriakides-Cheeseman will use their funds to develop a research proposal to study infant colic; Nursing Professors Karin Olson and Caroline Park will flesh out a research proposal to study factors associated with patients' being repeatedly admitted to hospital

for psychiatric care; and Marilyn Wales will develop a research proposal describing the fears of heart attack patients both when they are in hospital and after they go home.

The remainder of the 1984 Foundation allocation has been earmarked for nine Alberta nurses undertaking graduate programs. Three of the nurses are working toward their PhD degrees; the other six are at the master's level. Their research projects cover a wide range of topics, including the causes of nursing strikes in Alberta, mother-infant bonding, quality of life for home kidney dialysis, and major ethical problems facing nursing administrators.

Dr. Stinson is pleased with both the applications received by and the in-

creased support from the Foundation. "The number and range of proposals received this time round is really impressive," she told *Folio*. "The Foundation is the envy of nurse researchers in Canada and abroad. It has certainly provided a boost for Alberta nurse researchers."

A plan for the systematic development of nursing research was first proposed by the Alberta Association of Registered Nurses. The provincial government responded in 1981 by setting aside \$1 million specifically for nursing research. The Foundation's priorities and goals are aimed at enhancing the quality and quantity of nursing research in Alberta for the purpose of improving nursing care. □

Government Reports Focus on Student Costs and Participation Trends

Two Government of Alberta reports have recently been released by Alberta Advanced Education. The "Participation Patterns Study" provides "the first comprehensive source for evaluating patterns of student participation in post-secondary education throughout the 1970s and into the 1980s." The "Tuition Fee Review," outlining student costs in Alberta and comparing those costs to other provinces and selected areas of the United States, was conducted in conjunction with the "Participation Patterns Study."

Initiated in response to the provincial government's interest in maintaining a high quality and well-structured post-secondary system "available to all Albertans whose desires and abilities lead them to pursue a post-secondary education," the Study is based upon a detailed examination of 1971, 1976 and 1981 census data.

The Study notes that post-secondary education in Alberta has "experienced phenomenal growth" since the early '70s; that youths from high socioeconomic backgrounds "continued to attend post-secondary institutions at a higher rate than youths from disadvantaged backgrounds;" that urban students continue to participate at a higher rate than rural students; and that females, part-time

learners, and students with French, German and Native backgrounds have increased their participation levels.

In announcing the results of the Study, the Hon. Dick Johnston remarked that "Alberta's post-secondary facilities have undergone considerable expansion in recent years and there has been a significant growth of support through student financial aid. However, participation levels can still be further improved for certain social and economic groups."

The "Tuition Fee Review" focussed on such issues as tuition fees in selected programs, student contributions toward university operating revenue, historical and projected tuition fee increases, and student assistance.

Specifically, the Review noted that the share contributed by Alberta students toward university operating budgets is *declining*; that Alberta's undergraduate students paid the second (Arts) or third (Science) lowest tuition fees in Canada during 1982-83; that the increase in provincial operating grants to Alberta's universities (55 percent from 1977 to 1981) was the largest in Canada; and that projections indicate that Alberta's student assistance program will serve three times as many students next year than in the 1980-81 academic year. □

Folio accepts display advertising

Size and rates: the basic unit size is 21 agate lines x 11 picas (1 1/2" x 1 7/8"). The full page is divided into 22 such units, any combination of which is available at a cost of \$15 per unit. Half page costs \$165. One column costs \$82.50. A professional/business card unit is available at a cost of \$30. Discounts are offered for extended runs, please enquire.

Other specifications: half-tones (100-line screen or less) are acceptable; no colour or bleeds. Camera-ready copy is necessary. There is a charge of 30c per word for typesetting, and \$7.50 for adjustment of design work. Deadline for submission is one week prior to publication (Thursday, 3 p.m.). Acceptance of advertisements and positioning are at the discretion of the editor.

These rates are effective from 1 January 1981. For more information please telephone 432-2325 and ask about *Folio* display advertising or write to:

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Office of Community Relations
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The University of Alberta
Edmonton, Alberta
T6G 2E8

Berkowitz Appointed Member of the Order of Canada

Norbert Berkowitz, Professor of Fuel Science, Department of Mineral Engineering, was recently named as a member of the Order of Canada.

Dr. Berkowitz was born in Germany of Russian-Jewish parents, and in 1939 went to Britain where he received his post-secondary education. He holds a BSc (Chemistry) and PhD from the University of London.

In 1952 he emigrated to Canada to join the Alberta Research Council in Edmonton.

From 1959 to 1970, he served as Head of the Research Council's Coal Research Division, and from 1970 to 1979 as Head of its Fuel Sciences Division. In 1979 he left the Research Council in order to assume his current position.

From 1971 to 1983 he also served concurrently as a Board Member

(later Vice-Chairman) of Alberta's Energy Resources Conservation Board.

Dr. Berkowitz has authored more than 150 scientific papers as well as two textbooks (*An Introduction to Coal Technology*, published in 1979, and *The Chemistry of Coal*, due to be published in late 1984); and in recognition of his work, he has been invited to lecture and conduct seminars at universities, government research agencies and professional societies in the Americas, Europe and Asia.

Dr. Berkowitz was a 1973-74 Distinguished Lecturer of the Canadian Institute of Mining and Metallurgy, and among other awards, received the Queen Elizabeth II Silver Jubilee Medal from the Government of Canada. □

CAHPER Honor for Glassford

Gerry Glassford, Dean, Physical Education and Recreation, was recently awarded the R. Tait McKenzie Award of Honor by the Canadian Association for Health, Physical Education and Recreation (CAHPER). The prestigious award is presented "in recognition of distinguished service to the profession, and unremitting zeal in promoting its aims and objects."

Dean Glassford has filled a number of important roles in CAHPER and is best known for his work as Chairman of the Research Council and as a popular conference evaluator. He is currently Co-Chairman of the Canada Fitness Survey. In 1983 he served as Chairman of the FISU/CESU International Sport and Physical Education Conference.

His professional sphere includes a number of socio-cultural issues, particularly the place of traditional games in the culture of the Canadian Eskimo. His dissertation, "Application of a Theory of Games to the Traditional Culture", was based on extensive first-hand study in the Canadian north.

At the presentation of the award in Ottawa, he was referred to as "a re-

naissance man in the true sense...his travels have carried him to the far corners of the world where he has studied sport and the related aspects of many cultures, carried the word about our profession in Canada, and left his mark as a distinguished lecturer and teacher. His list of publications and professional papers is extensive. Moreover, Gerry's active involvement in the supervision of graduate students has had an abiding influence on these leaders and leaders-to-be in our field." □

people

Several members of the Department of Sociology participated in the annual conference of the Canadian Population Society held as a component of the 1984 Learned Societies Meetings in Guelph, 9 to 11 June. In all, eight papers were contributed by Sociology

faculty and students. K. Krotki (University Professor) organized and was chairman of a session on fertility. A progress report on the National Fertility Survey, undertaken by Balakrishnan of Western Ontario, Krotki of the University of Alberta, and *Lapierre-Adamcyk of Université de Montréal, was featured in this session. P. Krishnan was a discussant in the Ontario Demography session. He also contributed two papers, one on a demographic analysis of unemployment in Canada and the other on the fertility patterns of Moslems in India, to the conference. The papers were prepared jointly with graduate students Ed Ng and Shirley Loh. F. Trovato presented a paper on mortality differences among Canada's foreign-born and native-born. Graduate students J. Jayachandran, Shafiqul Islam and Jean Yeung also read papers on methodological and substantive issues related to population.

From 21 June to 7 July, Myer Horowitz (President), along with the Presidents of British Columbia, Western Ontario, York and Montreal, was the guest of the Government of the Federal Republic of Germany on a study tour of universities in West Germany. On 13 July he delivered the address at the final session of a conference at the University of Calgary sponsored by its Faculty of Education. The theme of the conference was "The Right Blend—The Faculty of Education between the University and the Profession." Dr. Horowitz spoke on "The Faculty and its Relationship to the University."

A recent appointee to the Advisory Board of the Canadian Association of Occupational Therapists was Samuel S. Kling (R.S. McLaughlin Examination and Research Centre/Surgery). In the words of Donna Campbell, Past President of CAOT, Dr. Kling has "already provided invaluable assistance particularly as we prepare to implement a national certification examination for occupational therapists. This exciting project is a major undertaking and we look forward to his advice and guidance in the future as well."

Ann Pagliaro (Nursing) and Louis Pagliaro (Pharmacy) co-presented a two-day workshop for health professionals interested in enhancing their knowledge of geriatric pharmacology. The workshop, entitled "Pharmacology and the Aged," was presented for the Health Sciences Outreach de-

partment of Grant MacEwan Community College on 21 and 22 June at the Mill Woods Campus.

Juliet McMaster (English) delivered a paper on "Mimesis as Subject in *Nicholas Nickleby*" at the meetings of the Association of Canadian University Teachers of English at the University of Guelph this spring. The paper was a version of a chapter in her book on Dickens that is currently in preparation for Macmillan of London.

Christine Ewaskiw (John A. Weir Memorial Law Library) has been awarded the West Publishing Company Scholarship by the American Association of Law Libraries Scholarship Committee. The scholarship is to pursue the study of law. It is the first time it has been awarded to a Canadian Law Librarian.

Leszek A. Kosiński (Geography) served as a program coordinator for the annual meeting of the Canadian Population Society, in Guelph, 9 to 11 June. At this meeting the Society celebrated its 10th anniversary. Professor Kosiński has been elected a President of the CPS for a two-year term. The membership of the CPS includes students of population from both government (particularly Statistics Canada) and academia in the English-speaking part of Canada. The cooperation between the CPS and its counterpart in Quebec—Association des Démographes du Québec—is formally assured within the Federation of Canadian Demographers. The CPS sponsors *Canadian Studies in Population*, published by the Population Research Laboratory, University of Alberta (*G. Jarvis*, Sociology, Editor), and a *Newsletter*, published by the Brindale College, University of Toronto.

Herman Tennesen (Theoretical Psychology/Philosophy) has been affiliated with the University of Oslo (Institute of Philosophy) since his retirement from the University of Alberta in 1983. Recently, in Oslo, he was the special guest of honor at a "Symposium on Theory of Science" where he presented a paper entitled "The revolutions that fizzled out." His recent book, *Jeg velger sannheten* (Oslo: Universitetsforlaget, 1983) has been widely and favorably reviewed in both professional journals and Norwegian newspapers. Professor Tennesen hopes to return here this fall and offer a seminar on Völkerspsychologie.

Yar Slavutych (Professor Emeritus, Slavic and East European Studies) was re-elected President of the Ukrainian Shakespeare Society for the second five-year term during the annual meetings of the Learned Societies of Canada at the University of Guelph recently. This international society, organized in 1957 in Germany, consists of some 30 translators and researchers living in Canada, the United States, Australia, England and other European countries.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Medicine

26 July, 4 p.m. Robert Dowman, Division of Laboratories and Research, New York State Department of Health, Albany, "Operant Conditioning and Noxious Stimuli." Hepburn Memorial Conference Room, 4A112 Mackenzie Health Sciences Centre.

30 July, 4 p.m. Norman Stockbridge, Marine Biology Laboratory, Woods Hall, Boston, "Calcium Transmitter Release." 4A112 Mackenzie Health Sciences Centre.

2 August, 4 p.m. T.K. Baumann, Pain Unit, Sandoz Ltd., Binningen, Switzerland, "Spinal Cord Processing of Nociceptive Information." 4A112 Mackenzie Health Sciences Centre.

Anatomy

31 July, 11 a.m. B. Beresford, Department of Chemistry/Biochemistry, University of Guelph, "Embryonic Muscle Development in Chick-Quail Chimaerae." Sponsored by the Alberta Heritage Foundation for Medical Research. 5-12 Medical Sciences Building.

Student Legal Services of Edmonton

31 July, 7 p.m. Evening seminar on matters of interest to landlords and tenants. Call 432-2226 for free tickets and ask for Legal Reform Office for more information. 201 Law Centre.

Matters of Faith

St. Joseph's College

Mass conducted daily at 7:30 a.m. and 12:30 p.m., Saturday at 12:30 and 4:30 p.m., Sunday at 9:30 and 11 a.m.

Exhibitions

Ring House Gallery

Until 12 August. "Scott Goudie: India Series." This exhibition of 17 drawings and paintings by Newfoundland artist Scott Goudie is from a series of work he did in 1981 while travelling throughout India.

Bruce Peel Special Collections Library

Until 21 September. "Rare Illustrated Books." Includes books from four centuries on such varied subjects as: Utah and Oregon Territory, flying squirrels, locusts, Italian poetry, and modern book-works, plus the first glimpse of the Curwen Press Collection, a recent major acquisition. B-7 Rutherford South.

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing
MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Introduction to Plotting
Integrated Graphics Overview

Statistics

Data Preparation for Statistical Packages (Prerequisite)
Introduction to SPSSx
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.
Advanced Text Formatting
Courier Operation and Visual Editing
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL
Introduction to Clustan
Introduction to TSP
Introduction to Osiris
For more information on any of the courses listed above, telephone the Training Assistant at 432-2511, between 8:30 and noon, weekdays.

Devonian Botanic Garden

For further information on the courses listed below, call 987-3054.
Meadows and Mushrooms of the Tonquin Valley
A Herbaceous Plants Walk
Wilderness Family Camp-Out at the DBG
Hunting for Edible Mushrooms
Cattail Coil Basketry

Scholarships, Fellowships and Awards

Bora Laskin National Fellowship in Human Rights Research

At the close of June the Prime Minister announced the establishment of The Bora Laskin National Fellowship in Human Rights Research to be awarded annually by the Secretary of State of Canada beginning with the 1985-86 academic year.

Named for the late Chief Justice of the Supreme Court of Canada, the award will take the form of a one-year fellowship for research on themes and issues relevant to human rights in Canada. The objective of the fellowship is to encourage interdisciplinary research and the development of expertise in the field of human rights, involving the arts, humanities and the social sciences, as well as journalism and law.

Candidates should possess a graduate degree in one of the fields which would be addressed by the research and should be Canadian citizens or permanent residents of Canada. The applicants should have five to fifteen years of proven experience in their field.

More complete details concerning application procedures will be made available shortly. The deadline for receipt of applications for the first award for academic year 1985-86 will be 31 October 1984.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Clinical Pharmacologists, Departments of Pharmacology and Medicine

The Departments of Pharmacology and Medicine are seeking applications for a tenure-track faculty position at the level of assistant or associate professor. Applicants should have proven research skills in pharmacology, appropriate Canadian clinical qualifications, and be enthusiastic and competent lecturers. The individual selected will have research interests consistent with the current research activities of the Department of Pharmacology. The closing date is 31 August 1984.

Those interested should apply in writing enclosing a curriculum vitae, the names of at least three referees, and any other relevant information to Dr. David A. Cook, Department of Pharmacology, University of Alberta, Edmonton, Alberta T6G 2H7. Telephone (403) 432-3575.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 19 July 1984. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Library Clerk II (Term) (\$1,161-\$1,390) Music Clerk Typist II (Recurring Term) (\$1,161-\$1,390) Zoology

Clerk Typist II (Trust/Recurring Term)

(\$1,161-\$1,390) Civil Engineering

Senior Financial Records Clerk (Term)

(\$1,294-\$1,561) Comptroller's Office

Admissions Records Clerk (\$1,294-\$1,561) Registrar's Office

Clerk Typist III (Recurring Term)

(\$1,294-\$1,561) Dental Health Care

Clerk Typist III (\$1,294-\$1,561) Administrative Services

Clerk Typist II/III (Trust) (\$1,161-\$1,561) Home Economics

Clerk Typist III (\$1,294-\$1,561) Personnel Services and Staff Relations

Clerk Steno II (Term) (\$1,294-\$1,561) Athletic Services

Clerk Steno III (\$1,294-\$1,561) Extension

Clerk Steno III (\$1,294-\$1,561) Centre for Frontier Engineering Research

Clerk Steno III (\$1,294-\$1,561) Computing Science

Clerk Steno III (\$1,294-\$1,561) Special Sessions

Clerk Steno III (\$1,294-\$1,561) Mineral Engineering

Secretary (\$1,442-\$1,766) Administrative Services

Secretary (Term) (\$1,442-\$1,766) Business

Secretary (\$1,442-\$1,766) Plant Science

Administrative Clerk (\$1,442-\$1,766) Music

Administrative Clerk (\$1,442-\$1,766) Housing and Food Services

Departmental/Executive Secretary

(\$1,625-\$2,003) Senate

Building Services Worker III (\$1,442-\$1,766) Physical Plant

Technician I (Trust) (\$1,497-\$1,842) Medicine

Building Services Worker IV (\$1,561-\$1,920) Physical Plant

Technician II/Technologist I (Trust)

(\$1,697-\$2,092) Biochemistry

Biochemistry Technologist I (Trust)

(\$1,697-\$2,092) Cancer Research Group

Biology Technologist I (Trust) (\$1,697-\$2,092)

Zoology

Library Assistant IV (Term) (\$1,920-\$2,378) Political Science

Library Assistant IV (\$1,920-\$2,378) Boreal Institute for Northern Studies

Biochemistry Technologist II (Trust)

(\$1,920-\$2,378) Genetics

Electronics Technician IV (\$2,280-\$2,834) Computing Science

Fire Protection Officer (\$2,280-\$2,834) Physical Plant

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library. Telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words

and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

Accommodations available

Rent - 1 September 1984-31 January 1985, four bedrooms, North Glenora. \$650/month, negotiable. 452-0635.

For rent - Claridge House. Large, luxury, highrise condo. apartment. Two bedrooms, two bathrooms. In-suite laundry, air conditioned, five appliances. One block to University. \$800. 430-6797.

Rent - Executive bungalow, three bedrooms, two baths, close University, amenities. 1,390', prestige location, one-year lease. \$850/month. 434-4586.

Sale - Owner, Petrolia. Two-storey, three-bedroom, 1,344', finished basement, two garages. 12 1/2% mortgage until December 1988. \$88,000. 437-4745 evenings.

Sale - Two-bedroom, modern condo. apartment. Two blocks University. A/C, parking, reduced. 486-6600 evenings.

For sale - By owner. \$6,000 down. Two-bedroom bungalow. Partially developed basement. New furnace. Reinsulated. Double garage. In immaculate condition. Walking distance to University. Call 462-6626.

Rent - Four-bedroom house. 11150 77 Ave. September. \$675. 487-7254, 432-5303.

Rent - Three-room, upstairs apartment, own entrance, three blocks from campus. Older woman preferred. \$380/month inclusive utilities. 433-4870.

For rent - West end, three-bedroom bungalow, main floor, fully furnished, garage. One-year lease preferred. Phone 486-2402 or 484-5836 evenings.

For rent - House, westend. 1 September, partially furnished, many extras. \$585/month. 484-1062 after 4 p.m.

For sale - Saskatchewan Drive. Spacious, split level in outstanding condition. Huge, professionally landscaped grounds with river valley view.

Woodburning fireplace. Double, front, garage. Ed Lastiwka, 437-4987, 437-7480. A.E. LePage.

Sale - Immaculate, three-bedroom, semi-bungalow, 1,200', completely renovated, near University. Basement completely finished, single garage, excellent revenue property for 4-5 tenants. Days, 436-0108. Evenings, 436-0233.

For sale - Solid brick, two-storey, beautifully restored, University area. New kitchen, plumbing, wiring. Gorgeous yard with many evergreens and fruit trees. \$89,900. \$69,000 financing. Ed Lastiwka, 437-4984, 437-7480. A.E. LePage.

Sale - Windsor Park. Three bedrooms plus suite downstairs. Hardwood flooring, updated kitchen, private 150' lot, garage plus double parking behind. \$129,000. Liz Crockford, Spencer's, 436-5250, 434-0555.

Sale - Garneau. Super, remodelled, two-storey. New kitchen, fireplace, deck, hot tub. New windows, plumbing, wiring. Downstairs: fourth bedroom, three-piece and family room. Try \$129,000. Liz Crockford, Spencer's, 436-5250, 434-0555 res.

For sale - Grandview bungalow. Excellent condition. 1,585 sq. ft., professionally designed backyard. Liz Crockford, Spencer's, 436-5250, 434-0555.

Sale - \$66,500. Close to University. Two-storey, 10747 80 Ave. Liz Crockford, 436-5250. Spencer's.

Private sale - Malmo. Asking \$87,000. Attractive, four-level split on 50'x120' lot, three bedrooms, 1 1/2 baths, jacuzzi, greenhouse window in

kitchen, double garage, close University, buses, churches, shopping. 434-3239.

Sale - Two-bedroom, attractive condo. Two blocks to campus. Balcony, five appliances, air-conditioned. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Windsor Park. Quiet location. Bright, cheerful, two-storey. Four bedrooms, two garages. Super yard. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Immaculate, Pleasantview home. Extremely large lot. Two large rooms adaptable for office or studio. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Belgravia. Only \$79,500. Immaculate, three-bedroom, well-built home. Large, treed lot. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Only \$39,500. Bright, immaculate condo. South exposure. Walk to University. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Saskatchewan Drive. Quiet location. Three-bedroom bungalow with exceptional river view. 2,000 sq. ft. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - University, Claridge House condo. Only \$89,000. Five appliances. Chris Tenove, 433-5664, 436-5250, Spencer's.

Sale - Bright, modern, two-bedroom condo. 1 1/2 baths, six appliances, University. \$74,000. 432-0119.

Sale - Forest in Windsor Park for \$144,900. Trees are large, lot immense. Home has sunny deck, fireplace, developed basement. Call Carolyn to view, 435-6843, A.E. LePage, 436-5080.

Sale - Claridge House, \$89,000-\$129,900. Several floor plans available. Luxury condo. close to University. Pool, jacuzzi, air conditioning, to name some amenities. Call Carolyn for details, 435-6843, A.E. LePage, 436-5080.

To share - Luxurious, quiet townhouse. Female/male. Parking, bus. Bedroom furnished/unfurnished. \$300/month. Sherry, 436-2950.

Sale - Two-bedroom home. \$64,900 with a great mortgage of 11 1/2%. University area, 830 sq. ft. Must be sold. \$14,000 down. Luana Houston, A.E. LePage, 434-5372, 437-7480.

Accommodations wanted

University professor requires housekeeping room or equivalent, 1 September-31 December. Garage, parking desired. 432-3467 or 486-5399.

School of the Alliance Française

Summer French Courses

Classes during July and August

For information, please call 468-4340

Automobiles and others

1979 Ford Pinto station wagon. Excellent condition. 423-0993.

1977 Oldsmobile Cutlass V-6, 68,862 miles. Well maintained. 452-6645, 439-4822 before 9 p.m. \$2,950.

Goods for sale

Two air tickets for sale. Return to Toronto. Leave 26 July, \$200, o.b.o. Call Peter, 487-5133.

Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available.

Open seven days a week. 433-1781.

Kawai, upright piano, polished, \$3,250. 437-7299. Paintings, other art: Gissing, Murray MacDonald, Glyde, Leighton, others. Japanese stencils; Chinese embroideries. 433-2932.

Four, wooden, ice-cream parlour chairs. 10-speed bike. Nordica downhill ski boots. Luggage.

Weaving loom. Phone after 6 p.m. 433-8461.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Word processing - \$18/hour. Typing - from \$1.50/page. Greek symbols and equations. 432-0138.

Academic staff: Supplementary healthcare reimburses treatment costs for backaches, stress tension at Back Basic Therapy. Maria Krieg, university-trained in Düsseldorf, offers: Heat, massages, chirogymnastics, interferential electrotherapy. 436-8059. 11627 75 Ave.

JL Citation Services. Computerized literature searching by experienced scientists. Full searches, automatic updating. 487-8652. M-W-Th: 1-5:30, Tu-W-F: 8:30-12:30

Quaker worship, Sundays, 11 a.m. Soroptimist Room, YWCA. 100 Ave. 103 St.

Loving person sought to care for two girls, 1 1/2 and 3 1/2, afternoons, September through June, in our Crestwood home. Phone 451-1880.

L'Atelier, French tutorial: Small classes at various levels. Adults and children (weekdays). Semi-immersion (Saturdays). Contact Yves Puzo, 432-7565, Tuesdays and Thursdays, 3-6 p.m.

COLD SORES!

Do you suffer from recurring cold sores? Would you like to participate in a CONFIDENTIAL, controlled study by a University of Alberta research team investigating a promising anti-viral medication?

For more information, call Sheri or Joanne at 432-2691.